

Aniv Chakravarty

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EDUCATION

University of North Texas | Denton, Texas

Doctorate | Computer Science and Engineering

Expected 2028

Current GPA: 3.950 out of 4

Relevant Course Work: Digital Image Processing, Advanced Pattern Recognition

University of North Texas | Denton, Texas

Master of Science | Artificial Intelligence

Graduated 2023

Current GPA: 3.909 out of 4

Relevant Course Work: Machine Learning, Deep Learning, Software Development in AI, Empirical Analysis

Ramaiah Institute of Technology | Bengaluru, India

Master of Technology | Computer Science and Engineering

Graduated 2019

GPA: 8.43 out of 10

Relevant Course Work: Big Data and Analytics, Cloud Computing, Natural Language Processing

Nitte Meenakshi Institute of Technology | Bengaluru, India

Bachelor of Engineering | Computer Science and Engineering

Graduated 2015

GPA: 9.16 out of 10

Relevant Course Work: Data Structures, Analysis and Design of Algorithms

TECHNICAL SKILLS

Software: Visual Studio | Anaconda | PyCharm | Jupyter | Git | Octave | VMware Workstation | Microsoft Office Suite (Excel, Outlook, PowerPoint, Word) | Android Studio **Programming Languages:** Python (Intermediate) | R (Beginner) | C# (Beginner) | Java (Beginner) | C (Beginner) | C++ (Beginner) | SQL (Beginner) **Operating Systems:** Windows | Linux | MacOS | Android

ENGINEERING PROJECTS

Bee Box Detection

academic

Dec 2024-Current

- Detecting small objects and bee boxes in remote sensing images.
- Publications: <https://doi.org/10.1016/j.eswa.2025.131061>

Deep Learning based crop field irrigation mapping

academic

Jan 2022-Dec 2024

- Using USDA NAIP aerial imagery for crop field irrigation type landcover mapping through semantic segmentation

Unsupervised Abstractive Summarization using Recursive Neural Network with Attention Mechanism

academic

Oct 2017-Sep 2019

- Utilized DUC 2001 and 2002 Dataset along with tensorflow, keras, textgenrnn, nltk toolkit, wordnet libraries in python using the spyder IDE to perform abstractive text summarization using a recurrent neural network implementing a mechanism to hold attention on certain important keywords to improve context while reducing word length.
- Publications: <https://doi.org/10.1166/jctn.2020.8976>

Optimization of Routing in a Distributed Sensor Network using Heuristic Techniques

academic

Sep 2014 – April 2015

- Project included a 4 person team which used network simulator 3 with C++ to improve routing of distributed sensors using genetic algorithm as the heuristic
- Programmed and debugged the code to ensure the project met given requirements and quality standards

EMPLOYMENT EXPERIENCE

IBM, System Administrator, Bengaluru, KA, India

Jul 2015- Sep 2017

- Administered IT support, AS/400 and the IBM iSeries platform support through terminal based CL language, data storage, cyber security and automation.

UNT, Graduate Research Assistant, Denton, TX, USA

Jan 2022- Jul 2023

- Worked under Dr. Lu Liang in the Institute of Applied Sciences on the Irrigation Classification project that makes use of deep learning neural networks and image processing of aerial NAIP images. Learned to utilise ArcGIS Pro, Image pre-processing and complex model design for handling image classification and storage with large datasets. This is done in python with integration of tensorflow, keras, json, and geo image processing libraries.

UNT, Graduate Teaching Assistant, Denton, TX, USA

Aug 2023- Dec 2024

- Worked as a teaching assistant in CSE department for courses covering NLP, data structures, software development in AI

UNT, Graduate Research Assistant, Denton, TX, USA

Dec 2024- Jul 2025

- Worked under Dr. Xiaohui Yuan to detect small bee boxes on remote sensing images. Evaluation of popular state of the art methods on SkySat and google earth images.

UNT, Graduate Teaching Assistant, Denton, TX, USA

Aug 2025- Current

- Working as a teaching assistant in CSE department for courses covering data mining

INTERNSHIP

Intel , Intern, Bengaluru, KA, India

Jul 2018 - Jul 2019

- Developing User Interface in C# employing Visual Studio and display hardware details interfacing on windows
- Provide validation testing and customer engineering support in the areas such as integrated graphics and programming.

PROFESSIONAL EXPERIENCE

Volunteered in local research conference Pradarshana-2018

participated and presented in research conference ICRITCSA-2019

poster presentation in CSE Department "Visions of AI" and Open Day